

Career objective: To become a top notch professional and a research enthusiast, catering to the interests of mankind

Academic Career:

1. **Doctoral Student and Graduate Research Assistant** at the Department of Biomedical Engineering, Florida International University (FIU), Miami, under Dr. Jorge Riera-Diaz, **Topic:** Astrocytic networks as Optogenetic targets of regulation of Epilepsy, from August 2013
2. **Project Assistant** at the Stem cell and Molecular Biology Laboratory, Department of Biotechnology, Indian Institute of Technology – Madras (IIT-M) under Dr. Rama Shanker Verma, **Topic:** The effect of Microgravity on Cancer cells (Oct 2012 – May 2013)
3. **Research Intern** at the Departments of Anesthesia and Medicine and Cardiovascular Research , Brigham and Women’s Hospital, **Harvard Medical School, Boston** under **Dr. Piero Anversa/ Dr. Annarosa Leri, Topic:** Ephrin A1 based Sorting of Young/ Senescent Cardiac Stem Cells for effective Cardiac Regeneration post Myocardial Infarction (Feb- July 2012)
4. **B.Tech.**, Bioengineering, **SASTRA University**, Thanjavur, 2012, **CGPA:** 8.5256
5. **Class XII** (Physics, Chemistry, Mathematics, Biology), **D.A.V** Sr. Secondary school, **CBSE** (Central Board of Secondary Education), Chennai, 2008, **Marks:** 93.2%
6. **Class X**, **Delhi Public School**, **CBSE** (Central Board of Secondary Education), Ahmedabad, 2006, **Marks:** 90.4%

Areas of technical interest:

- Neuroscience, Stem cell biology (Regenerative Medicine), Biomaterials and Tissue Engineering, Medical physiology

Skill Set:

Lab techniques: Immuno cytochemistry, Immuno histochemistry, Cell culture, Molecular Biology techniques, Confocal, Epifluorescent microscopy, Electrospinning, Particulate leaching, Microsphere generation and Genetic engineering techniques

Relevant coursework completed: Cell Biology, Biochemistry, Molecular Biology, Molecular Genetics, Electrophysiology, Immunology, Biomedical Instrumentation, Biosensors, Biofluid dynamics, Cell Signaling, Medical Imaging Techniques, Stem Cell Biology, Drug Delivery Systems, Tissue Engineering

Computer skills: C, C++, MATLAB

Poster presentation:

1. **February 21-22, 2014. FURC, Florida International University, Miami, Florida**
Anggie Ferrer, Lakshmini Balachandar, Jorge Riera, Andrea Raymond, Madhavan Nair
‘Optogenetically induced Calcium signaling in Astrocytes’

Achievements:

- Department **TOPPER** in Stem cell Biology, 2011
- Department **TOPPER** in Medical Sciences I, Molecular biology, 2009, Medical Sciences II, 2010
- **TOPPER** in Cell biology in the School of Chemical and Biotechnology(SCBT), 2009
- **FIRST** in paper presentation on 'Regenerative medicine' at Reverberations, 2009
- **CBSE MERIT SCHOLAR**
- All India Second **TOPPER** in English – Class XII board Examinations, 2008
- **TOPPER** of Science Department – Class XI Examinations, 2007

Co-curricular Activities (In Plant Training and Industrial Visits):

- Visit to Sri Chitra Thirunal Research Institute for Biomedical Research, Trivandrum, 2010
- Training at Central Leather Research Institute, Chennai on Biophysics, 2010
- Training at Lifeline hospitals, Chennai on 'Regenerative Medicine', 2009

Extracurricular Activities:

- Science Olympiad FINALIST and TOPPER – All India Rank 161(2007)
- Won in the Inter School Quiz on Global Wildlife (2006)
- Completed Level 10 of Universal Concept of Mental Arithmetic System (UCMAS)
- Student's Talent Promotion Examination – All India Rank 359
- Distinction in Assessment of Scholastic Skills through Educational Testing (ASSET) test (2004/05)
- High credit for English, for participation in Educational Testing Centre (ETC) Talent Search Examination by University of New South Wales (2000)
- Actively participated in both Individual and Group Music competitions
- Actively participated in Bhagavad Gita recitation competition
- Participated in Awareness Rally of "Road Safety & Pollution Control" by Lions Club of India

Workshops/Conferences attended:

- International conference on 'Functional Nanomaterials' at SASTRA University, 2011
- Conference on 'Medical imaging techniques' held by Indian Institute of Science (IISc), Bangalore, 2011
- Conference on 'Regenerative medicine' by Nichi- In Centre For Regenerative medicine (NCRM), Chennai, 2010
- Workshop on 'Polymerase Chain Reaction' conducted by GE Healthcare, Bangalore, 2010
- Workshop on 'Cardio-Pulmonary resuscitation (CPR)' conducted by ALERT, 2009
- Workshop on 'Forensics' conducted by the Tamil Nadu Forensics Department, 2009

Responsibilities Held:

- Event manager and Forensics event planner of Bahisprana'11 – Bioengineering
- Department Fest
- Event manager of Technovista '09 – Bioengineering Department Fest

Personal Details:

Nationality: Indian **Date of birth:** 02 October 1990 **Languages known:** English, Hindi, Tamil

Residence address: 10491, SW 15 Lane, Apartment # 104, Miami, Florida - 33174

References:

- 1) **Dr. Jorge Riera-Diaz**, Associate Professor, Department of Biomedical Engineering, Florida International University, Miami, Ph no: +1 305 348 4948, email: **jrieradi@fiu.edu**
- 2) **Dr. Annarosa Leri**, Associate Professor, Departments of Anesthesia and Cardiovascular Medicine, Brigham and Women's Hospital, Harvard Medical School, Ph no: +1 617 525 8174, email: **aleri@partners.org**
- 3) **Dr. Rama Shanker Verma**, Professor, Stem cell and Molecular Biology Laboratory, Department of Biotechnology, Indian Institute of Technology, Madras, Ph no: +91 9444055161, email: **vermars@iitm.ac.in**
- 4) **Dr. K.Uma Maheswari**, Associate Dean, School of Chemical and Biotechnology (SCBT), SASTRA University, Ph no: +91 9894366263 , email: **umakrishnan@sastra.edu**
- 5) **Dr. Thiagarajan Raman**, Senior Assistant Professor, SCBT, SASTRA University, Ph no: +91 9940326239 email: **raman@biotech.sastra.edu**